

QUALITY CONTROL CERTIFICATE

Program code: QUAL-CC

Location: Gateway

Program Description

The Quality Control Certificate program is a sequence of courses that prepares students for the Certified Quality Technician (CQT) certification examination by the American Society for Quality Control (ASQC). The program assists students to develop competencies in concepts and techniques, statistical methods, sampling principles, reliability principles and applications, metrology and calibration fundamentals, quality data, quality analysis, problem solving and cost methodology, quality audit concepts and principles, geometry, trigonometry, and metric conversion.

Learning Outcomes

1. Identify, analyze, and solve technical problems in quality control, statistical processes, data analysis, metrology, and calibration systems
2. Configure and apply measurement systems hardware and software
3. Implement quality assessments and analyze data from test results

Graduates of this program possess the skills to identify, repair, analyze, modify, and improve basic manufacturing production systems. The experience and training gained in the Quality Control certificate program will also prepare students for implementing manufacturing cost methodologies and quality audit concepts.

Certificate Requirements

Code	Title	Credits
Required Courses		
EGR 1120 or MFG 1424	Engineering Drawing Specs Blueprint Reading 1	3
MFG 2439	Geometric Dimension and Tolerancing (G, D, and T)	3
MFG 1411	Manufacturing Materials and Processes I	3
MFG 1413	Principles of Quality Control	3
MFG 2216	Tool Design	4
MFG 2230	Statistical Process Control	3
Total Credits		19